# CYBER FORENSICS

T.Y.B.Sc ComputerScience

(V Semester)
For Academic Year
(2024-2025)



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#### **CERTIFICATE**

This is to certify that the Mr./Miss	of
T.Y.B.Sc.(CS) Semester-V has completed	the practical work in the subject
of CYBER FORENSICS during the Acad	demic year 2024-2025 under the
guidance of Mrs. Vinaya Mangnale. bein	ng the partial requirement forthe
fulfilment of the curriculum of Degree of I	Bachelor of Science in Computer
Science, University of Mumbai.	
Place:	Date:
Sign of Subject Incharge	Sign of External Examiner

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#### **Practical 1**

AIM: Creating a Forensic Image using FTK Imager.

**Creating Forensic Image** 

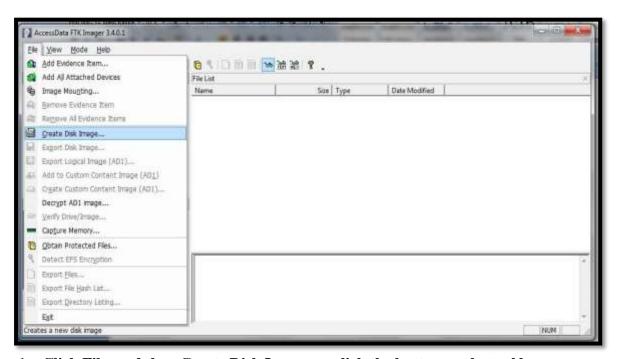
**Check Integrity of Data** 

**Analyze Forensic Image** 

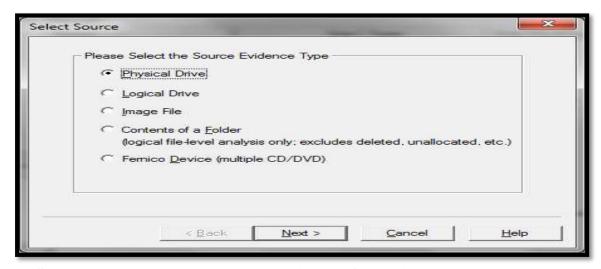
#### **Creating Forensic Images FTK**

Imager allows you to write an image file to a single destination or to simultaneously write multiple image files to multiple destinations.

To create a forensic image:



1. Click File, and then Create Disk Image, or click the button on the tool bar.



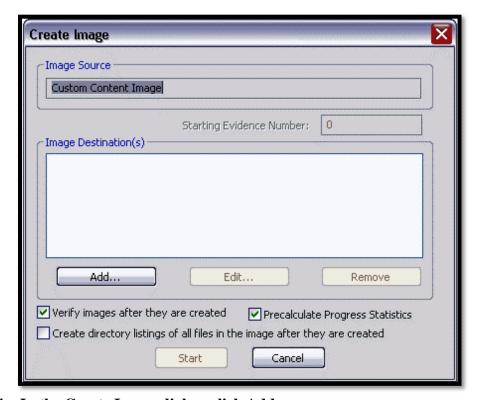
2. Select the source you want to make an image of and click Next.

If you select Logical Drive to select a floppy or CD as a source, you can check the Automate multiple

removable media box to create groups of images. Imager will automatically increment the case numbers with each image, and if something interrupts the process, you may assign case number manually.

3. Select the drive or browse to the source of the image you want, and then click Finish.

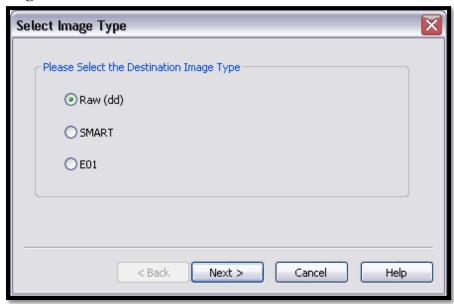




- 4. In the Create Image dialog, click Add.
- You can compare the stored hashes of your image content by checking the Verify images after they are created box. If a file doesn't have a hash, this option will generate one.

- You can list the entire contents of your images with path, creation dates, whether files were deleted and other metadata. The list is saved in a tab-separated value format
- 5. Select the type of image you want to create, and then click Next.

Note: If you are creating an image of a CD or DVD, this step is skipped because all CD/DVD images are created in the IsoBuster CUE format.



The raw image type is not compressed. If you select the Raw (dd) type, be sure to have adequate space for the resulting image.

If you select SMART or E01 as the image type, complete the fields in the Evidence Item Information dialog, and click **Next**.

**Raw** (**dd**): This is the image format most commonly used by modern analysis tools. These raw file formatted images do not contain headers, metadata, or magic values. The raw format typically includes padding for any memory ranges that were intentionally skipped (i.e., device memory) or that could not be read by the acquisition tool, which helps maintain spatial integrity (relative offsets among data).

**SMART:** This file format is designed for Linux file systems. This format keeps the disk images as pure bitstreams with optional compression. The file consists of a standard 13-byte header followed by a series of sections. Each section includes its type string, a 64-bit offset to the next section, its 64-bit size, padding, and a CRC, in addition to actual data or comments, if applicable.

**E01:** this format is a proprietary format developed by Guidance Software's EnCase. This format compresses the image file. An image with this format starts with case information in the header and footer, which contains an MD5 hash of the entire bit stream. This case information contains the date and time of acquisition, examiner's name, special notes and an optional password.

**AFF:** Advance Forensic Format (AFF) was developed by Simson Garfinkel and Basis Technology. Its latest implementation is AFF4. The goal is to create a disk image format that does not lock the user into a proprietary format that may prevent them from being able to properly analyze it.

**6.** In the Image Destination Folder field, type the location path where you want to save the image file, or click **Browse** to find to the desired location.

**Note:** If the destination folder you select is on a drive that does not have sufficient free space to store the entire image file, FTK Imager prompts for a new destination folder when all available space has been used in the first location.

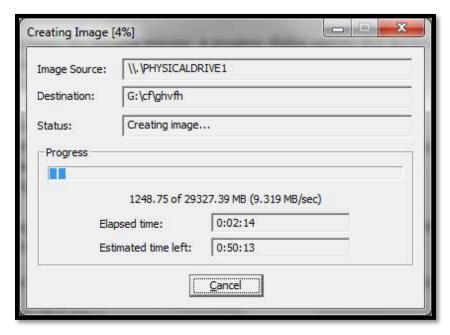
- 7. In the Image Filename field, specify a name for the image file but do not specify a file extension.
- **8.** In the Image Fragment Size field, specify the maximum size in MB for each fragment of the image file. The s01 format is limited by design to sizes between 1 MB and 2047 MB (2 GB). Compressed block pointers are 31-bit numbers (the high bit is a compressed flag), which limits the size of any one segment to two gigabytes.

**Tip:** If you want to transfer the image file to CD, accept the default fragment size of 650 MB.

- **9.** Click **Finish**. You return to the Create Image dialog.
- **10.** To add another image destination (i.e., a different saved location or image file type), click **Add**, and repeat steps 5–10. To make changes to an image destination, select the destination you want to change and click **Edit**.

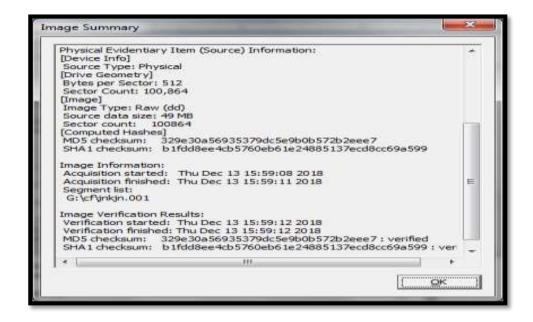
To delete an image destination, select the destination and click **Remove**.

- 11. Click **Start** to begin the imaging process. Aprogress dialog appears that shows the following:
  - The source that is being imaged
  - The location where the image is being saved
  - The status of the imaging process
  - A graphical progress bar
  - The amount of data in MB that has been copied and the total amount to be copied
  - Elapsed time after the imaging process began



- Estimated time left until the process is complete
- **12.** After the images are successfully created, click Image Summary to view detailed file information, including MD5 and SHA1 checksums.

**Note:** This option is available only if you created an image file of a physical or logical drive.

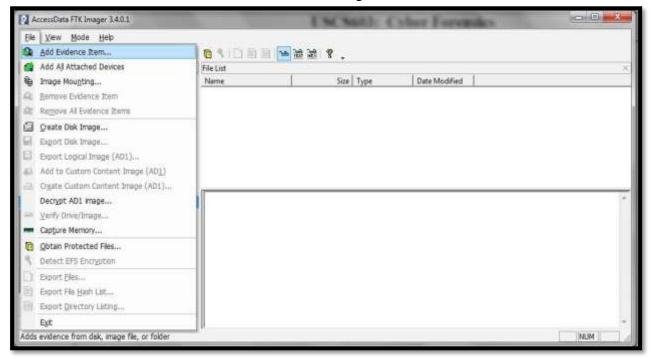


#### 13. When finished, click Close

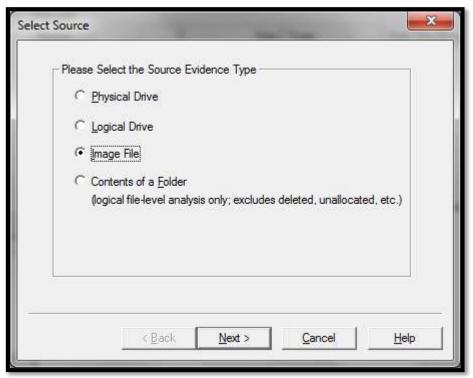
Note that the image file (\*.001) as well as the image summary file from above (\*.txt) have been saved onto the "Drive". The .001 extension may be left as is, or can be changed to .dd. The .001 extension is used due to the fact that many times the file to be imaged is very large and must be split into multiple chunks. In that case, you would have \*.001, \*.002, etc.

#### **Analyze Forensic Image:**

Click on Add Evidence Item to add evidence from disk, image file or folder.



Now select the source evidence type as physical drive, logical drive or image file. We have selected image file

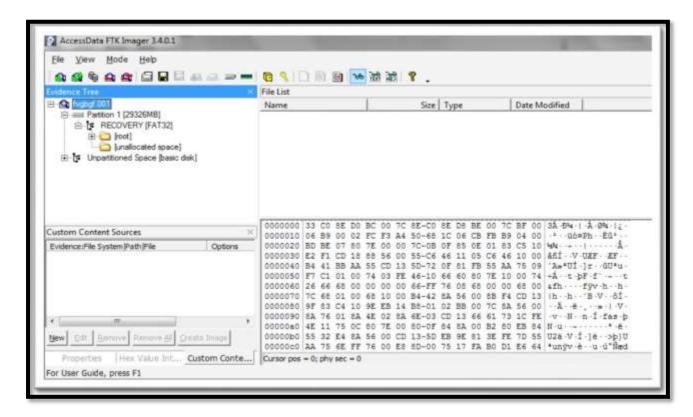


and click on next.

Select virtual drive image & click on open option. Select the source path and click on finish.



Now select Evidence Tree and analyze the virtual disk as physical disk.



Similarly to add raw image select again add evidence item and click on image file and click on open option.

#### Click on finish.

Now raw image will be added as physical drive to analyze.

CONCLUSION:- We successfully created forensic image, checked integrity of that image and analyzed the image using FTK Toolkit.

#### **Practical 2**

#### **Data Acquisition**

We are using Autopsy to solve the case study(image file).



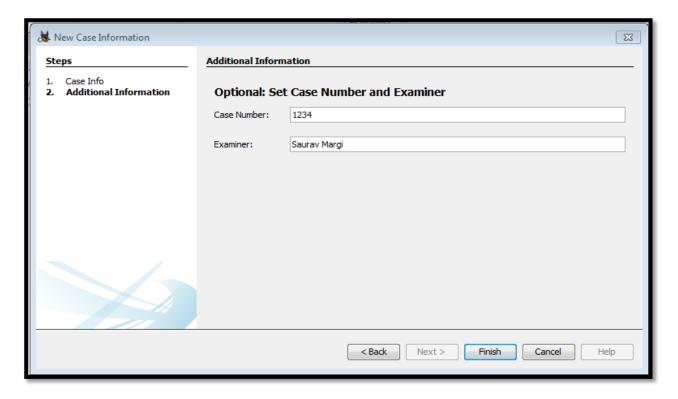
1. Start Autopsy and Select "Create New Case".



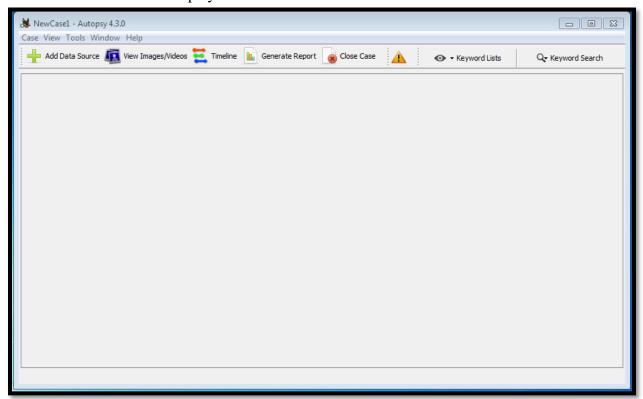
2. Enter Case Information.



3. Enter Case Number and Examiner & Click Finish.



4. The case is created and displayed.



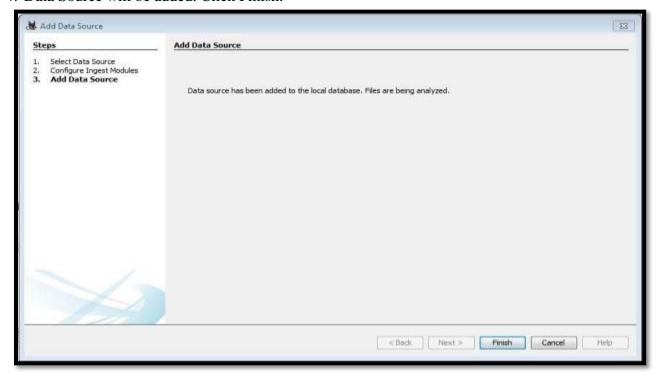
5. Add Data source details. Select data source type as Disk Image. Browse and select 'WinXp3.iso' file for an image file then Click 'Next'.



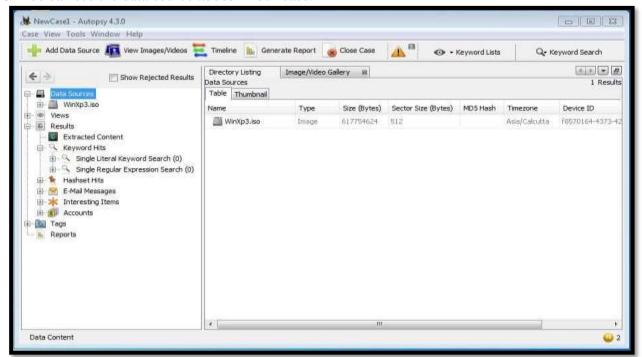
#### 6. Click Next.



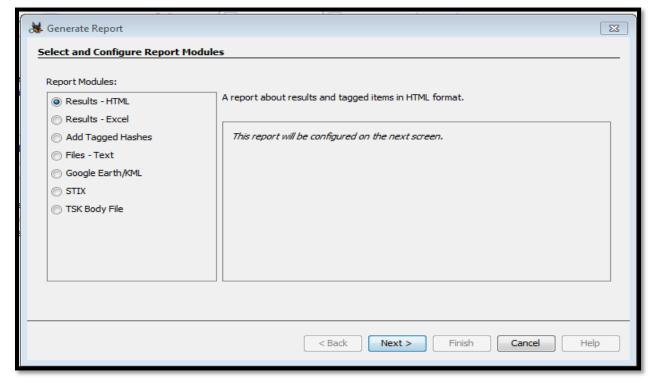
7. Data Source will be added. Click Finish.



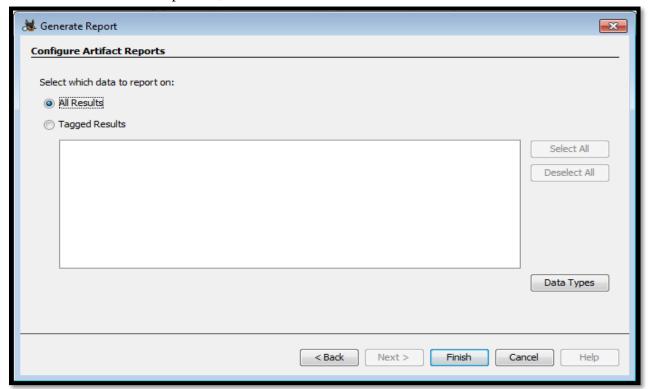
8. You can see the data source added in our case.



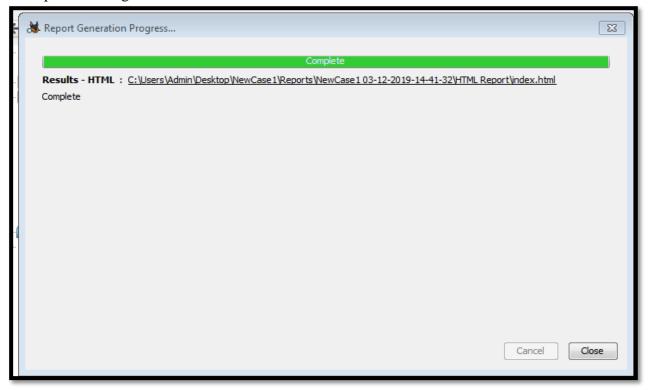
9. To generate reports, Click on Generate Report & select Report module. We selected HTML.



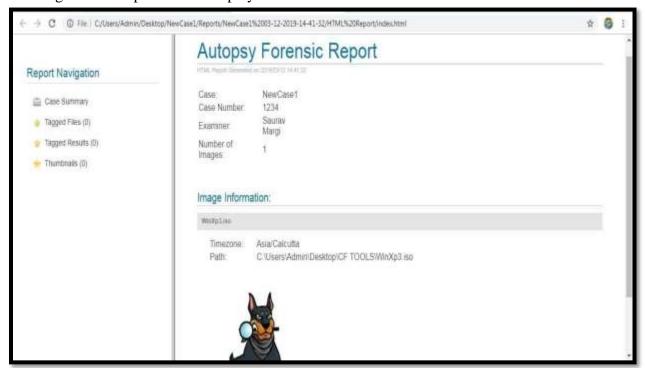
10. Select which data to report on, We selected All Results.



11. Report will be generated.



12. The generated report can be displayed as follows:-



CONCLUSION:- We successfully analyzed the forensic image file using Autopsy

#### **Practical 3**

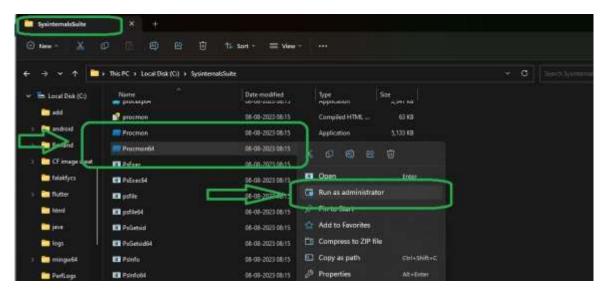
Analyze the memory dump of a running computer system.

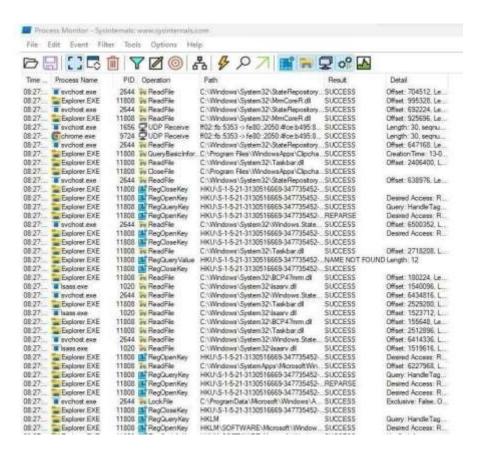
• Extract volatile data, such as open processes, network connections, and registry information.

#### **Practical:**

#### Open Process

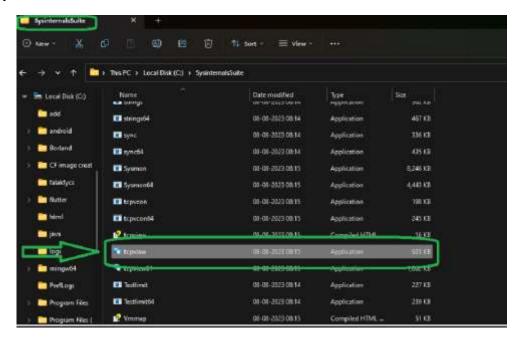
Go to Sysinternal Suite DrocMon Right Click on it and Open As Administrator

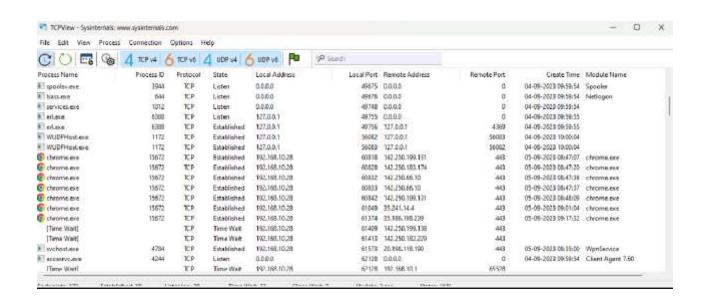


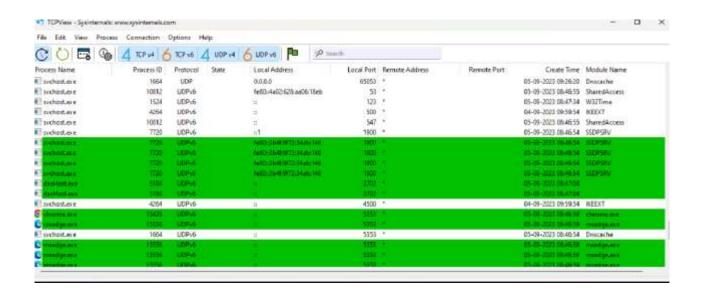


#### Network Connections

Go to SysinternalSuite □ TCPview

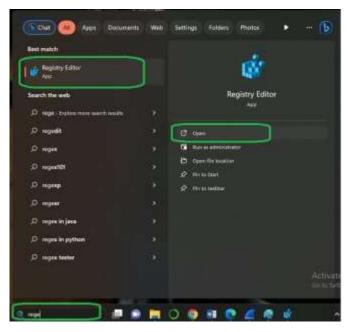






#### Registry Information

#### Click on $\underline{\textbf{Search Bar}}$ on the $\underline{\textbf{Taskbar}} \ \Box$ Type $\underline{\textbf{Regedit}} \ \Box$ Click on $\underline{\textbf{Registry Editor}}$



#### View the desired registries to be analyzed



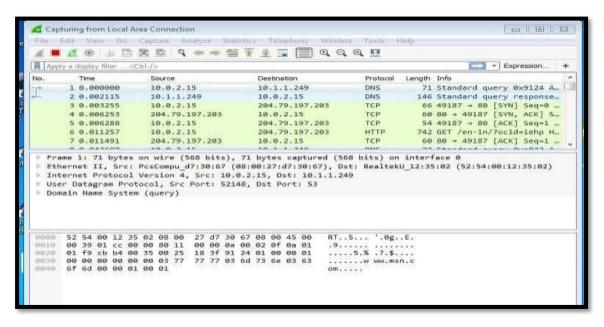
#### **Practical 4**

Aim :- Capturing and analyzing network packets using Wireshark (Fundamentals) : -

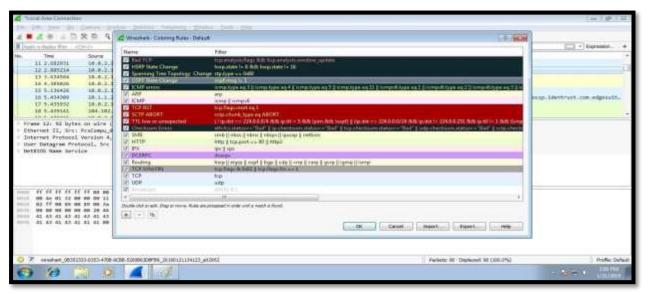
- -Identification the live network
- -Capture Packets
- -Analyze the captured packets

#### Step 1:-

Start Wireshark and Double click on Local Area Connections.



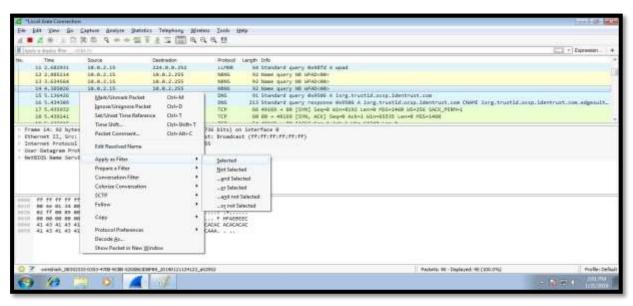
Step 2:To Know the Meanings of Colours Go to View Colouring Rules



#### Step 3:-

#### To Analyse captured packet

Select any Process Apply as filter Selected

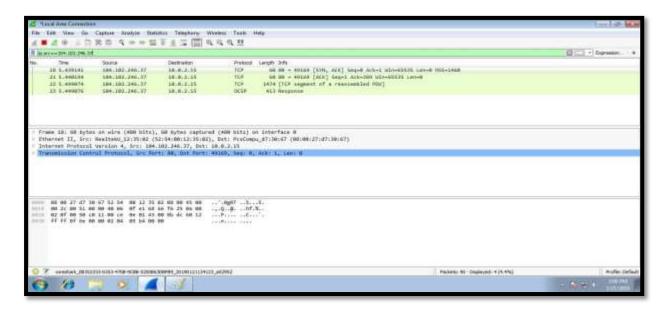


#### Step 4:- Now here are some filter commands:-

Source Packets :-

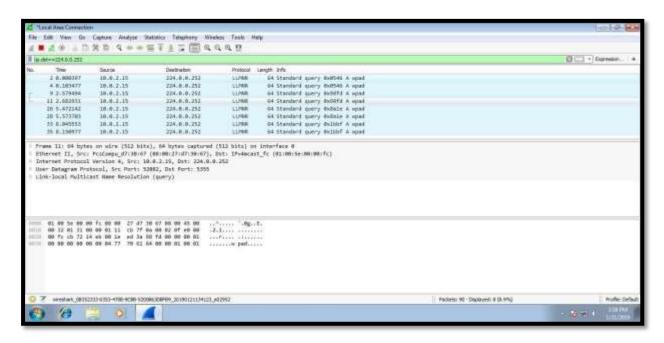
It displays packets coming from specific IP Address.

Eg :- ip.src ==104.102.246.37



Destination Packets: It displays packets having specific IP Address as Destination.

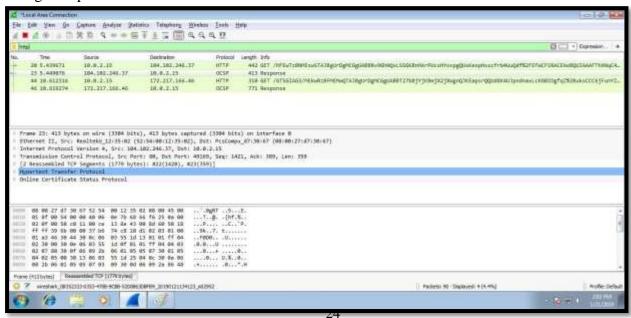
Eg :- ip.dst == 225.0.0.252



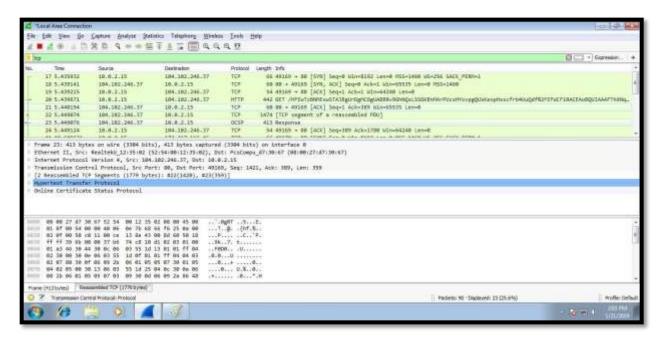
http Packets :-

It displays packets which are having http protocol.

Eg :- http



• TCP Packets:-It displays packets having TCP protocol.

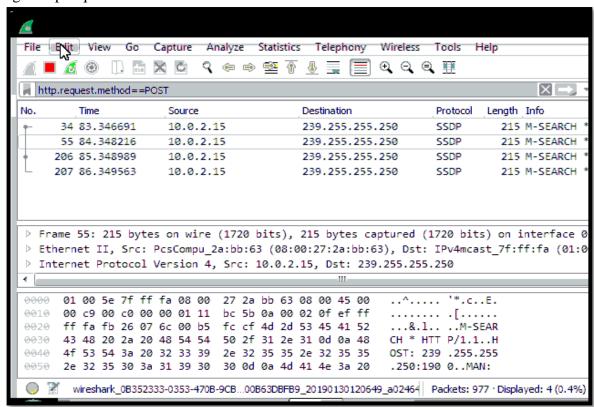


Eg:- tcp

http.request Packets :-

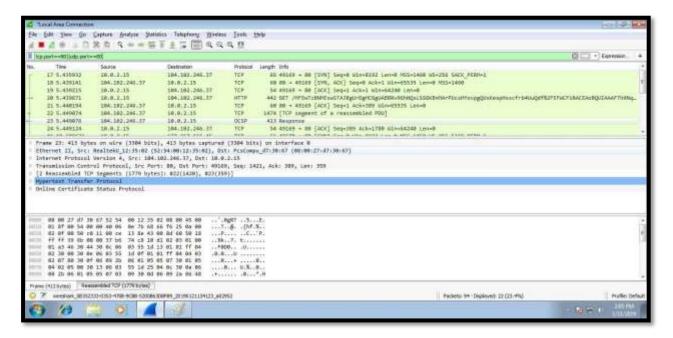
It displays packets which are using http request.

Eg:-http.request.method==POST



TCP and UDP Packets: To capture TCP & UDP packets on same port.

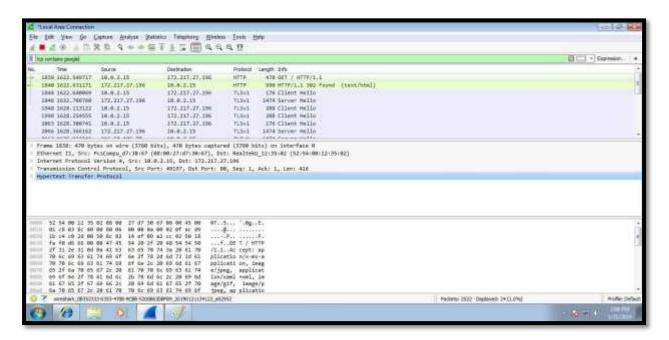
Eg :- For Port 80 tcp.port ==  $80 \parallel udp.port == 80$ 



Packets Containing Keyword :-

It display packets which contain some keyword.

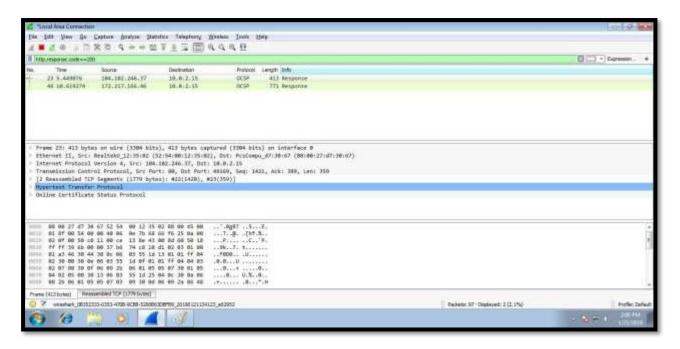
Eg :- For Google tcp contains google



http.response Packets :-

It displays packets having number of errors connecting to server.

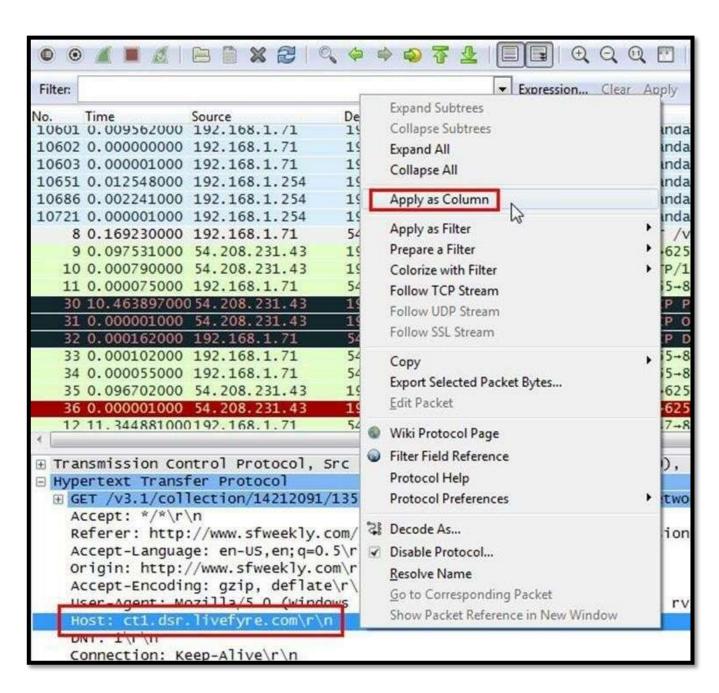
Eg:-http.response.code == 200



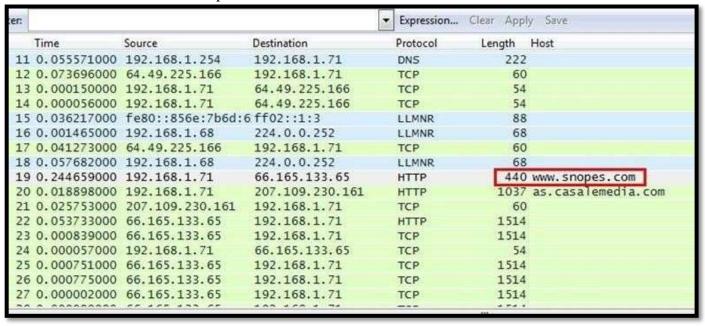
#### AIM: Analyze the packets provided in lab and solve the questions using Wireshark

#### 1. What web server software issued by www.snopes.com?

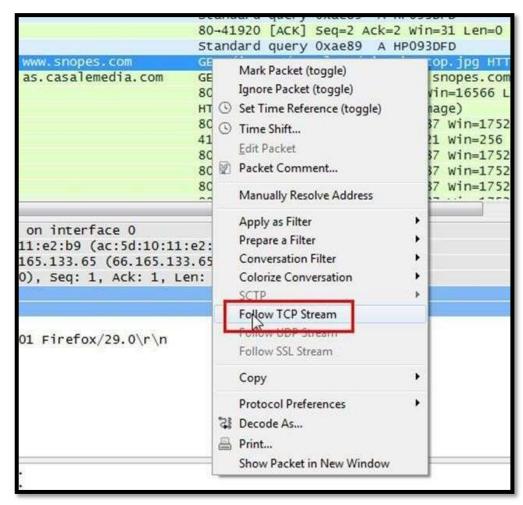
**Analysis** – The domain name be found from host header so we will set host header column where we will see all domain name. Select any HTTP request and expand the Hypertext Transfer Protocol then right click on Host header and then Apply as Column.

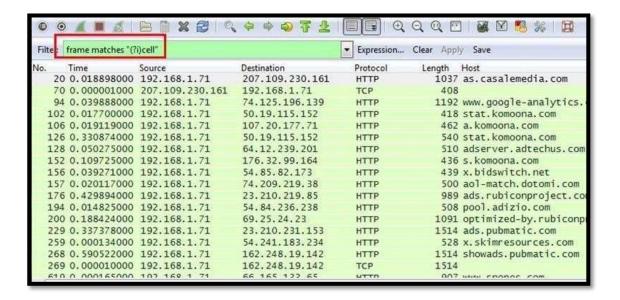


Now we can see our host www.snopes.com in host column.



Right click on the selected packet and then select Follow TCP stream.





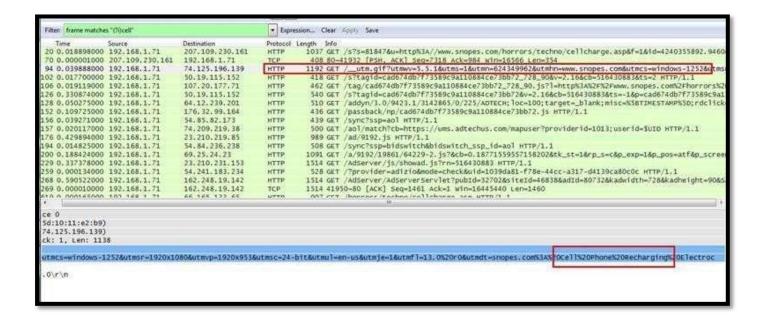
Now we can see the webserver name in server header it is Microsoft IIS 5.0

```
Stream Content
GET /images/template/site-bg-top.jpg HTTP/1.1
Host: www.snopes.com
User-Agent: Mozilla/5.0 (Windows NT 6.3; WOW64; rv:29.0) Gecko/2
Accept: image/png,image/*; q=0.8,*/*; q=0.5
Accept-Language: en-US, en; q=0.5
Accept-Encoding: gzip, deflate
Referer: http://www.snopes.com/style.css
Cookie: ASPSESSIONIDQQDDSBBA=OJMBNHECFCANKIJJGBBMBLDO
Connection: keep-alive
HTTP/1.1 200 OK
Server: Microsoft-IIS/5.0
Date: Thu, 22 May 2014 01.49:06 GMT
Content-Type: image/jpeg
Accept-Ranges: bytes
Last-Modified: Mon, 03 Nov 2008 04:34:19 GMT
ETag: "98242b706d3dc91:b5f"
Content-Length: 32173
 .....JFIF.....d.d.....Ducky.....U.....Adobe.
```

#### 2. About what cell phone problem is the client concerned?

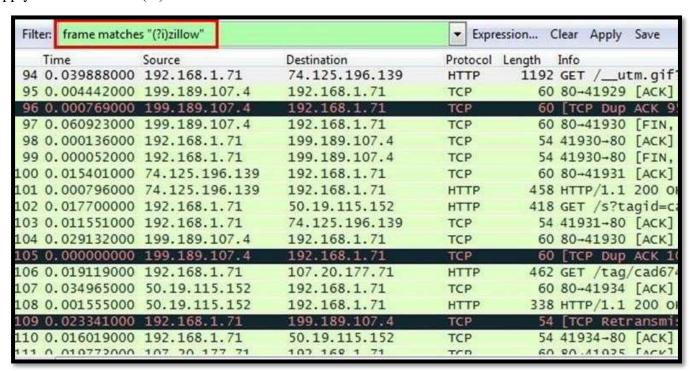
**Analysis** – Client talking about cell so we search for cell keyword in whole packets. We will use regular express for searching the cell keyword. Apply frame matches "(?!) cell"

After applying the filter now, we will start to check every HTTP request. We noticed in the first HTTP request cell keyword is in URL and it was about cell phone charging issue.

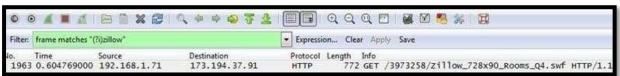


#### 3. According to Zillow, what instrument will Ryan learn to play?

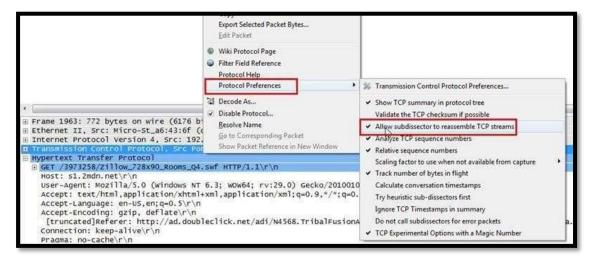
Analysis – As we did in the last challenge, we will apply a regular express filter for the Zillow keyword. Apply frame matched "(?!) zillow"



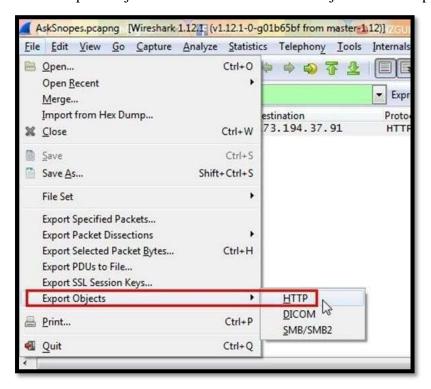
After applying the filter, we found only one packet with the Zillow keyword



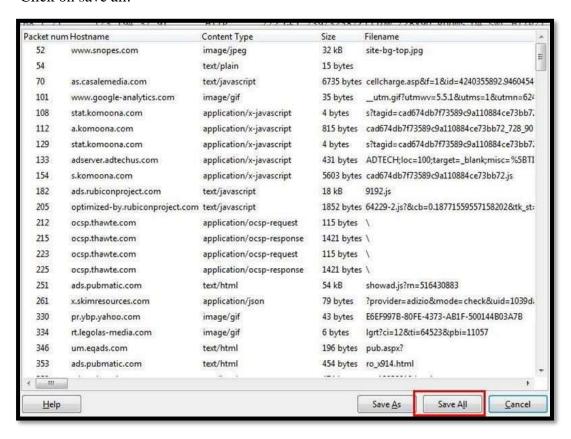
Select the packet and expand the Hypertext Transfer Protocol tab right click on it go to Protocol Preferences and check Allow subdissector to resemble TCP stream.

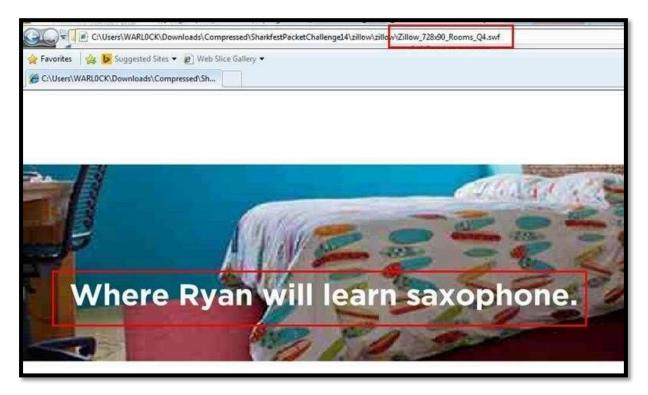


Now go to file and select Export Objects > HTTP. It will save all objects from the packet.



#### Click on save all.

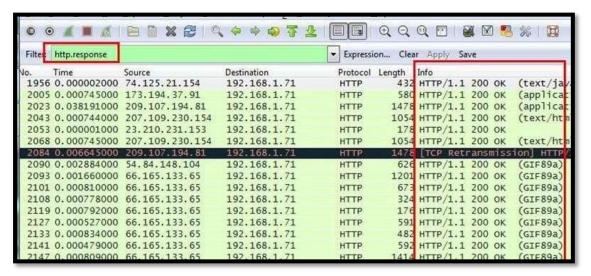




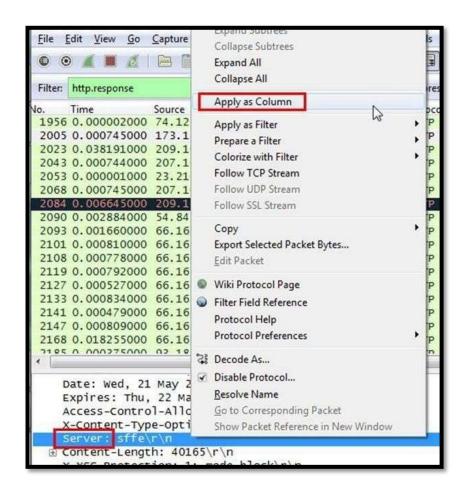
After saving all files in a directory and we found a swf file with name Zillow. After opening the flash file, we saw that Zillow was trying to learn saxophone.

#### 4. How many web servers are running Apache?

**Analysis** – The web server name can be retrieved from HTTP response header. So will apply filter http. response and we can see all http response packets.



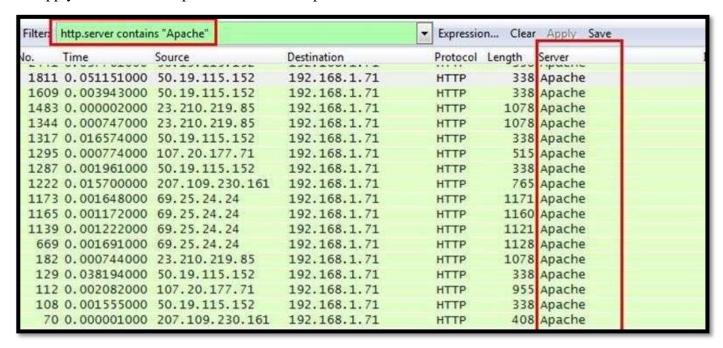
Now we will set the server header as column select any packet and right click on it then select Apply as Column.



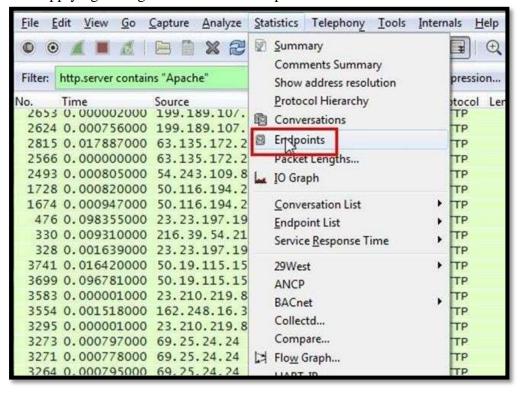
Now can see the server column where all server name is showing.

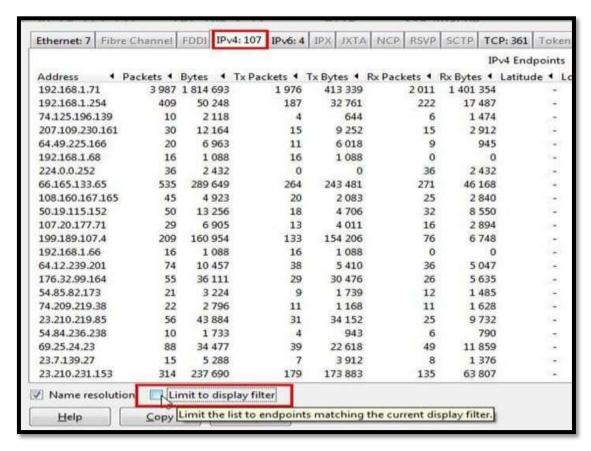
Destination	Protocol	Length S	erver	▼ Info
192.168.1.71	HTTP	828 5	ffe	HTTP/1.1 200 OK (JPEG JFIF image)
192.168.1.71	HTTP	580 s	iffe	HTTP/1.1 200 OK (application/x-shockwave-flash
192.168.1.71	HTTP	807 s	ffe	HTTP/1.1 200 OK (text/javascript)
192.168.1.71	HTTP	463 5	ffe	HTTP/1.1 200 OK (text/javascript)
192.168.1.71	HTTP	959 r	adiumone/1.2	HTTP/1.1 200 OK (GIF89a)
192.168.1.71	HTTP	525 r	adiumone/1.2	HTTP/1.1 200 OK (text/html)
192.168.1.71	HTTP	875 p	oost/2.0	HTTP/1.1 200 OK (application/x-javascript)
192.168.1.71	OCSP	829 0	csp_responder	tesponse
192.168.1.71	HTTP	1159 r	nginx/1.5.3	HTTP/1.1 302 Found
192.168.1.71	HTTP	1092 r	nginx/1.5.3	HTTP/1.1 302 Found
192.168.1.71	HTTP	626 r	nginx/1.4.7	HTTP/1.1 200 OK (GIF89a)
192.168.1.71	HTTP	685 r	nginx/1.4.7	HTTP/1.1 302 Moved Temporarily
192.168.1.71	HTTP	626 r	nginx/1.4.7	HTTP/1.1 200 OK (GIF89a)
192.168.1.71	HTTP	626 r	nginx/1.4.7	TTP/1.1 200 OK (GIF89a)
192.168.1.71	HTTP	681 r	nginx/1.4.7	TTP/1.1 302 Moved Temporarily
192,168.1.71	HTTP	323 r	nginx/1.4.3	TCP Out-Of-Order] HTTP/1.1 302 Found
192.168.1.71	HTTP	303 r	nginx/1.4.3	TTP/1.1 302 Found
107 169 1 71	UTTO	225	nainy/1 7 0	TTD/1 1 200 OF (application/v invaccint)

Now we have to check how many Apache packets are there we can"t count manually for each packet so we will apply another filter http.server contains "Apache"



After applying filter go to Statistics > Endpoints





It will show all connections

Check the limit to display filter then it will show the actual Apache connections. Now there are showing 22 connections but will exclude 192.168.1.71 because it is client's IP not a server IP so there are actual 21 Apache servers.

Ethernet: 2	Fibre Channel	FDD IP	/4: 22 IPv6	IPX JXTA	NCP RSVP S	CTP TCP: 77	Tol
		X			IPv4 End	points - Filter	: http
Address	◆ Packets ◆	Bytes 4	Tx Packets	Tx Bytes •	Rx Packets 4	Rx Bytes 4	Latitu
207.109.230				2 117		0	
192.168.1.71	80	60 911		0 (	0 80	60 911	
50.19.115.15	2 13	4 394	1	3 4 39	4 0	0	
107.20.177.7	1 4	3 143	5	4 314	3 0	0	
23.210.219.8	5 6	6 468		6 46	3 0	0	
23.210.231.1	53 12	6 163	1	2 616	3 0	0	
23.23.197.19	2	1 179		2 1 179	9 0	0	
216.39.54.21	2 1	225		1 22	5 0	0	
162.248.19.1	36 3	2 363		3 2 36	3 0	0	
162.248.16.2	4 2	1 692		2 1 69.	2 0	0	
69.25.24.24	13	15 024	1	3 15 02	4 0	0	
207.109.230.	154 3	3 162		3 3 16.	2 0	0	
50.97.236.98	2	1 753		2 1 75	3 0	0	
69.25.24.26	3	3 087		3 08	7 0	0	
50.116.194.2	1 1	1 045		1 1 04:	5 0	0	
50.116.194.2	3 1	527		1 52	7 0	0	
54.243.109.8	4 1	609		1 609	9 0	0	
63.135.172.2	51 2	837		2 83	7 0	0	
199.189.107.	4 4	3 950		4 3 950	0 0	0	
50.63.243.23	0 1	1 007		1 00	7 0	0	
207.109.230.	187 3	3 036		3 030	5 0	0	
162.248.16.3	7 1	74		1 7	4 0	0	

**CONCLUSION:-** We successfully captured and analyzed network packets using Wireshark

### **Practical 5**

# Using Sysinternals tools for Network Tracking and Process Monitoring:

## 1. Check Sysinternals tools

=>

Windows Sysinternals tools are utilities to manage, diagnose, troubleshoot, and monitor a Microsoft Windows environment.

The following are the categories of Sysinternals Tools:

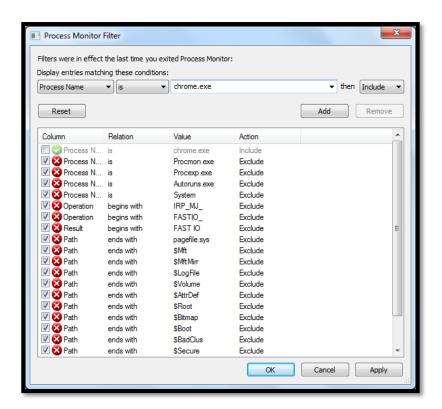
- 1. File and Disk Utilities
- 2. Networking Utilities
- 3. Process Utilities
- 4. Security Utilities
- 5. System Information Utilities
- 6. Miscellaneous Utilities

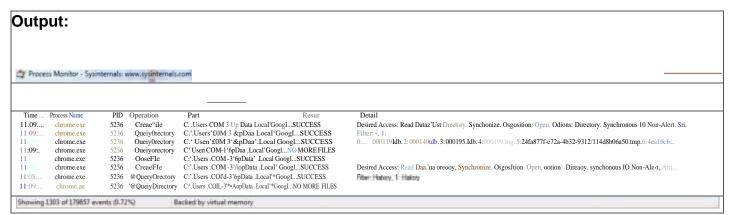
### 2. Monitor Live Processes (Tool: ProcMon)

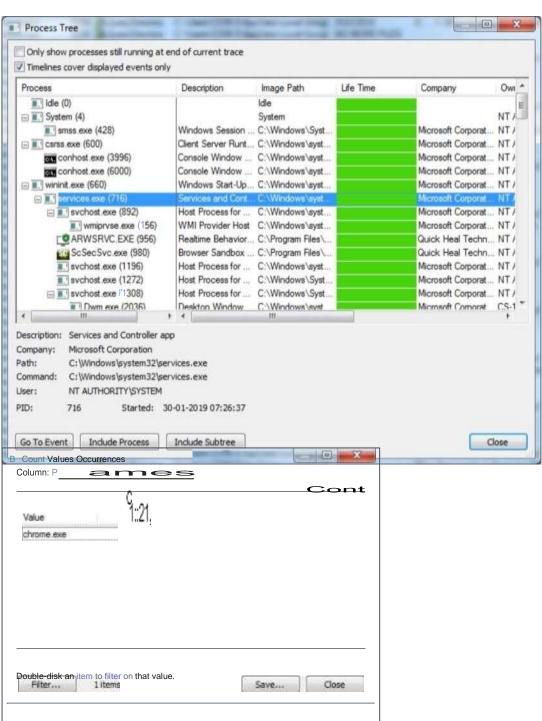
=>

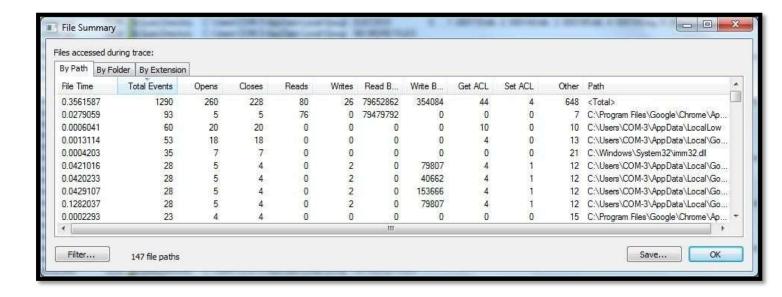
### To Do:

- 1. Filter (Process Name or PID or Architecture, etc)
- 2. Process Tree
- 3. Process Activity Summary
- 4. Count Occurrences







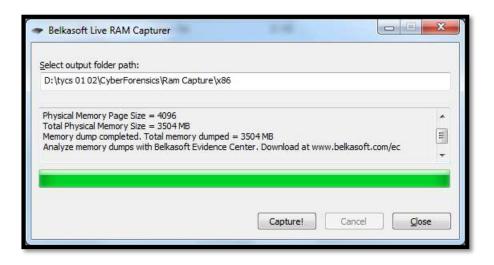


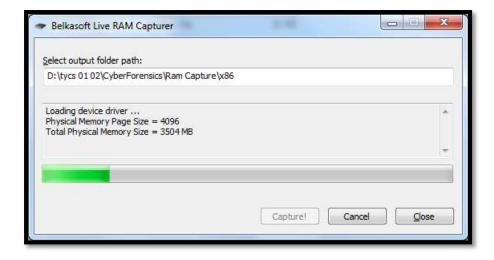
## 3. Capture RAM (Tool: RAMCapture)

=>

### To Do:

- 1. Click Capture
- 2. Creates a .mem file of the system memory (RAM) utilized.



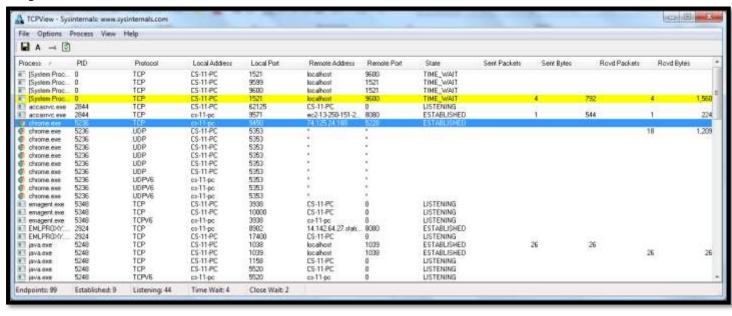


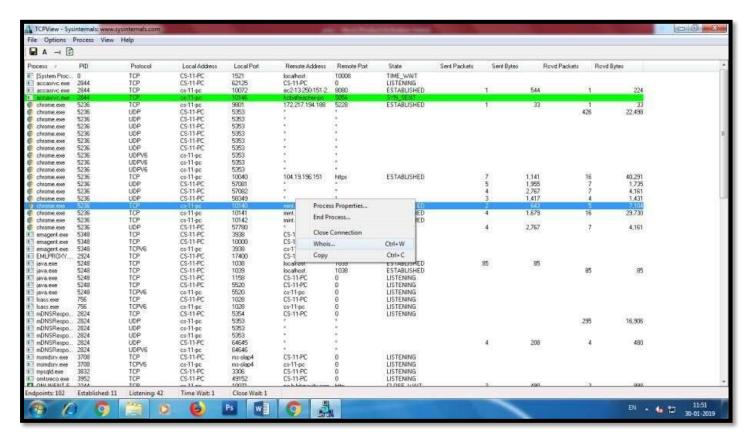
# 4. Capture TCP/UDP packets (Tool: TcpView)

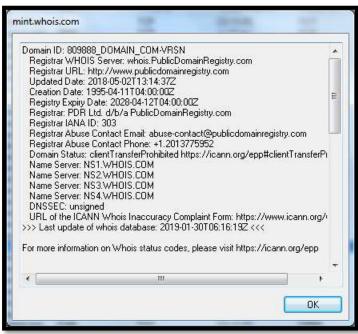
=>

### To Do:

- 1. Save to .txt file.
- 2. Whois





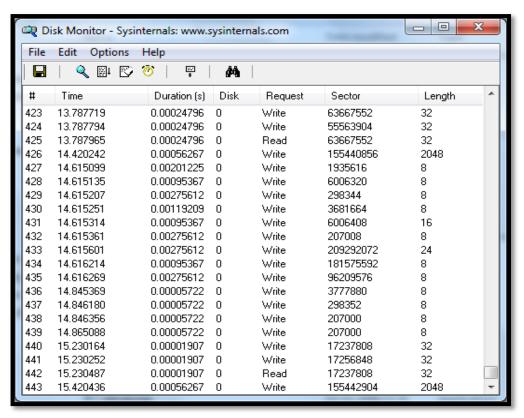


## 5. Monitor Hard Disk (Tool: DiskMon)

=>

### To Do:

- 1. Save to .log file.
- 2. Check operations performed in the disk as per time and sectors affected.

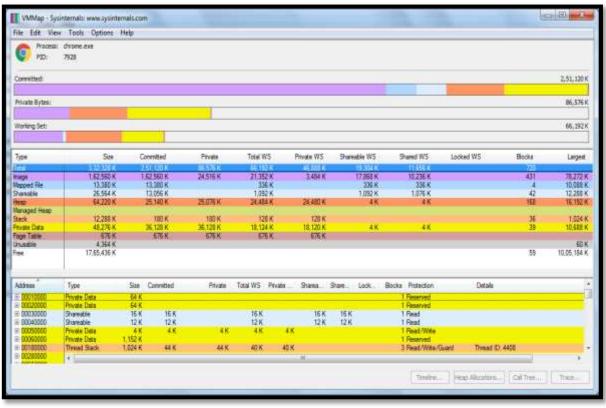


# 6. Monitor Virtual Memory (Tool: VMMap)

=>

### To Do:

- 1. Options Show Free & Unusable Regions
- 2. File-> Select Process e.g. chrome.exe
- 3. Save to .mmp file.

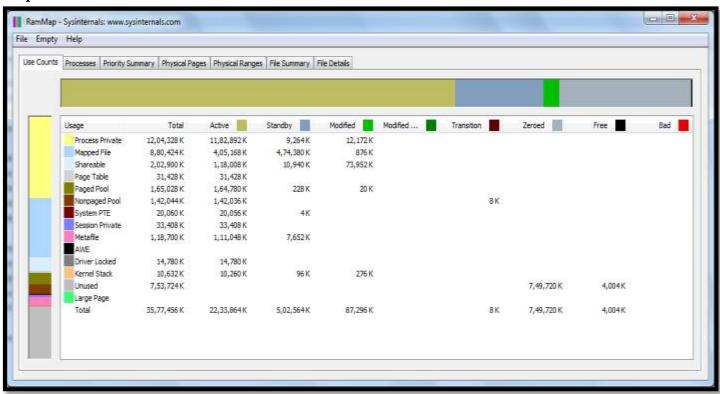


# 7. Monitor Cache Memory (Tool: RAMMap)To

Do:

1. Save to .RMP file.

### **Output:**

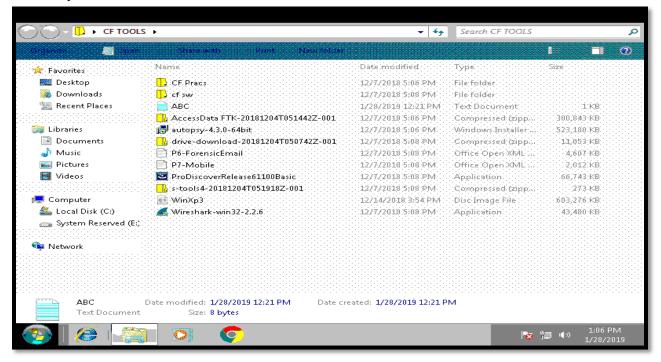


CONCLUSION:- We successfully used Sysinternals tools for Network Tracking and Process Monitoring

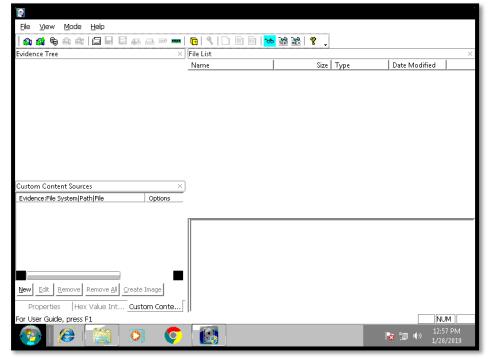
## **Practical 6**

# Aim :- Recovering And Inspecting Deleted Files Using Access Data FTK.

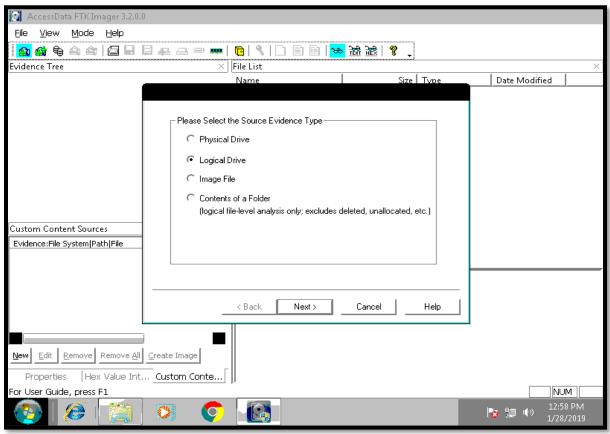
Step 1:-Create any demo text file and save it.



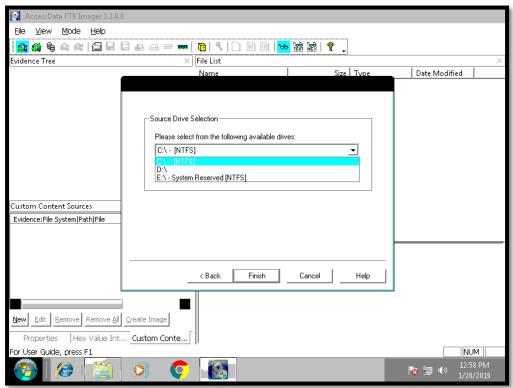
Step 2:-Open Access Data FTK. It will look as below :-



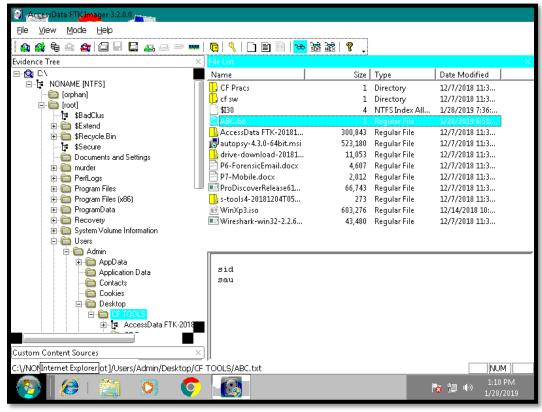
Step 3:-Click on Evidence Tree ,Select Logical Drive & Click Next.



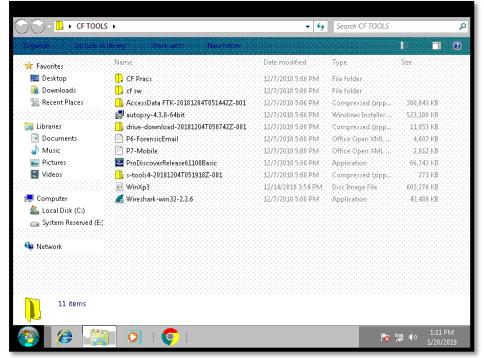
Step 4:-Select Source Drive.



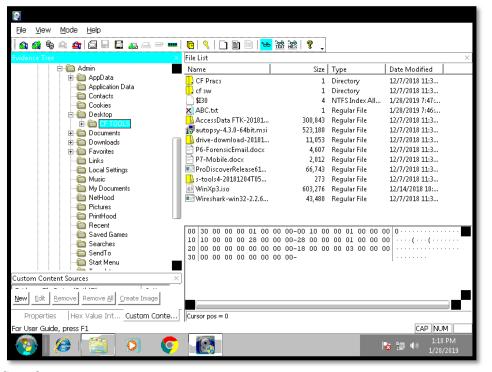
Step 5:-Go to the path where you have stored the file. The File will Display in the file list.



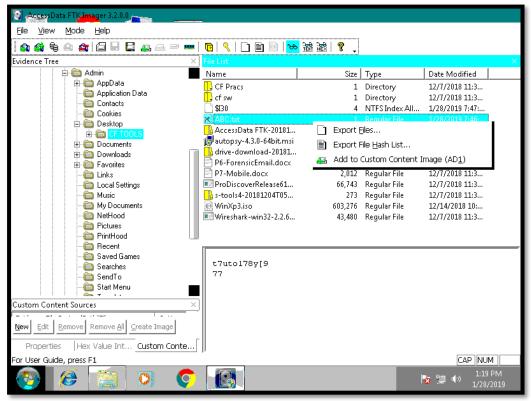
Step 6:-Now go to the folder again and delete the saved file.



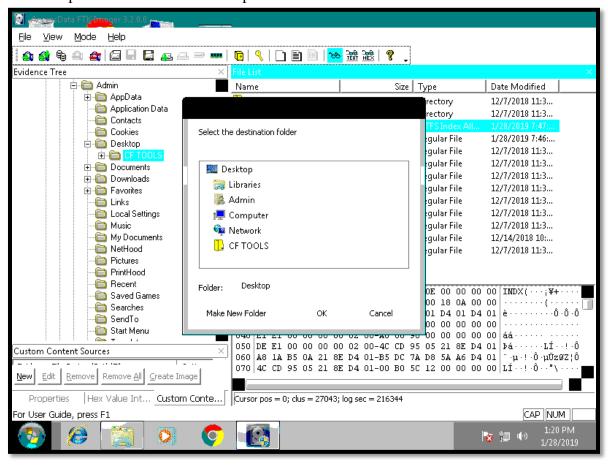
Step 7:Open Access File FTK and walk through the path where you have stored the file. The File will be Displayed with a Cross mark.



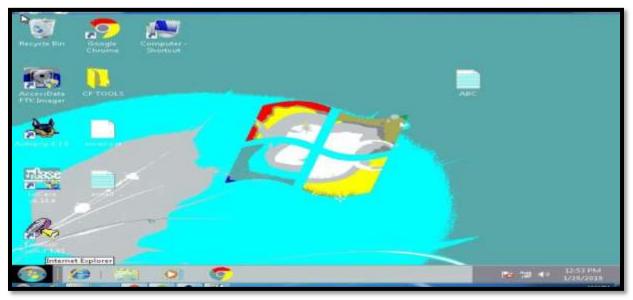
Step 8:To Restore File Right Click on it And Select Export File Option.



Step 9:-Select the path where the file to be exported.



Step 10:-File Will Be Restored.



CONCLUSION:- We successfully recovered and analyzed deleted data using FTK

# PRACTICAL NO. 7

# Aim:

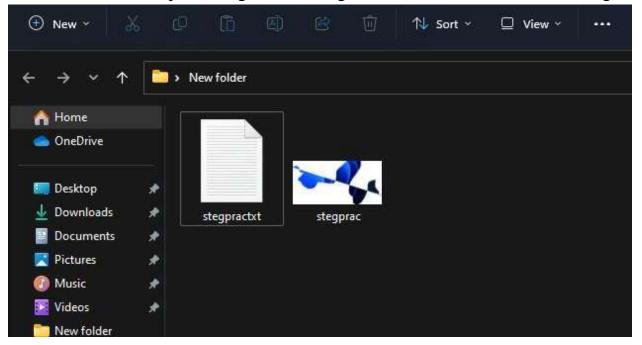
Steganography Detection

- Detect hidden information or files within digital images using steganography analysis tools.
- Extract and examine the hidden content.

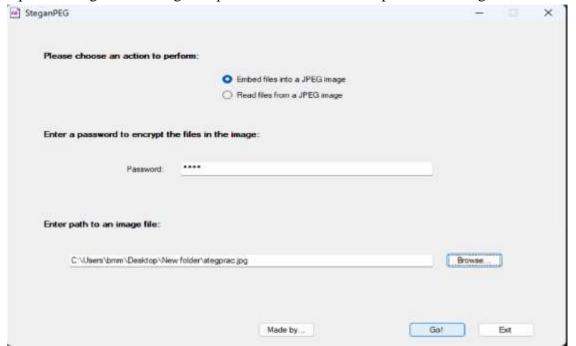
## **Practical:**

In this Practical we going to use **SteganPeg** to check the hidden files in the given Image

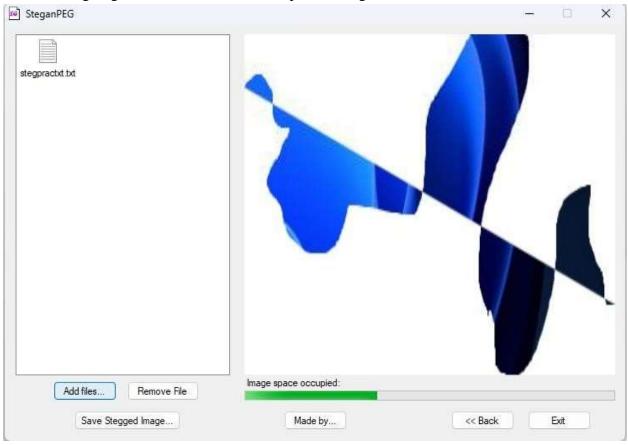
Create a folder to keep the image and message file and store the txt file and image:

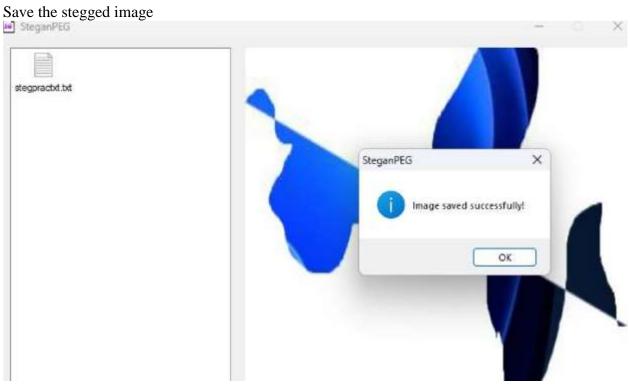


# Open the SteganPEG and give a password and browse the path of the image

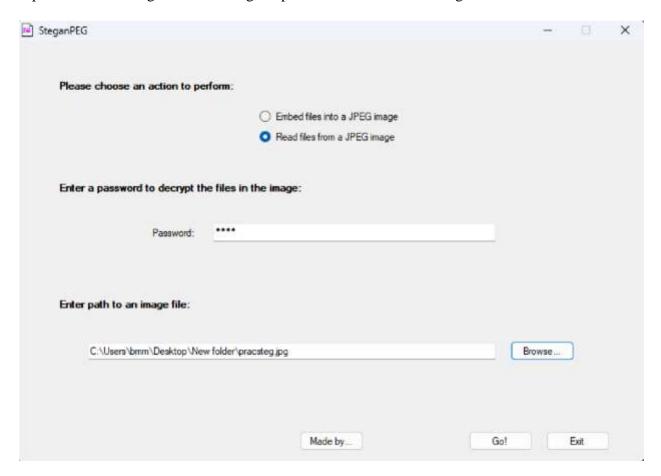


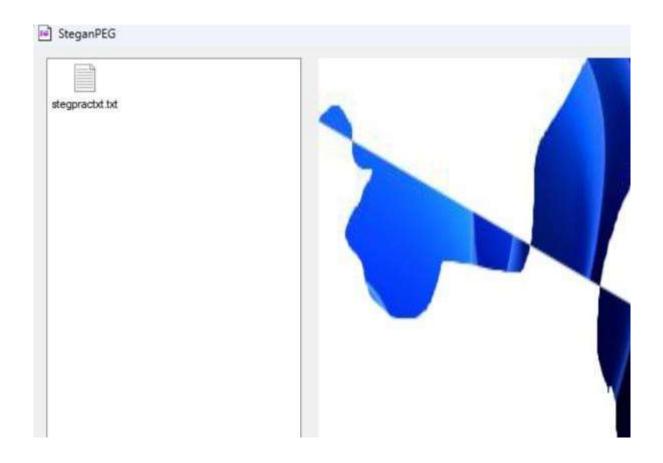
First we are going to add some files in the captured image





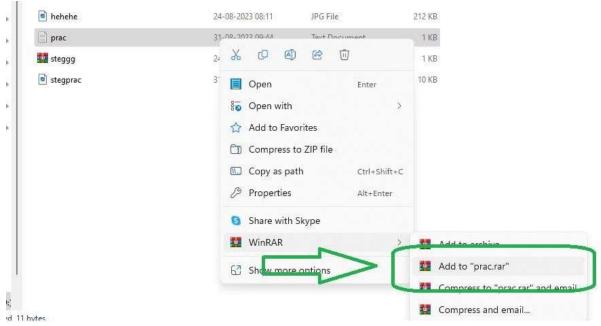
Open the saved image with the assigned password and view the image with hidden files





Now we are going to do the  $\underline{stegging\ process}$  using  $\underline{Command\ Prompt}$  and  $\underline{viewing}$  the Image using the  $\underline{WinRAR}$ 

Make a zip file of the text file



Go to **Command Prompt** and **Type** the **Syntax** 

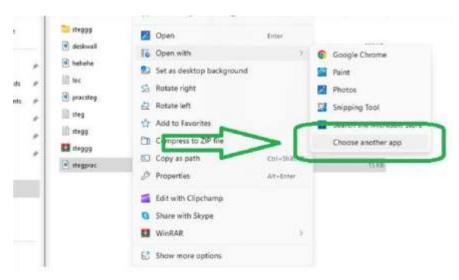
:\Users\ROYAL\Desktop\New Folder>copy/b stegprac.jpg + stegpractxt.rar

Then create a shortcut for WinRAR on the desktop

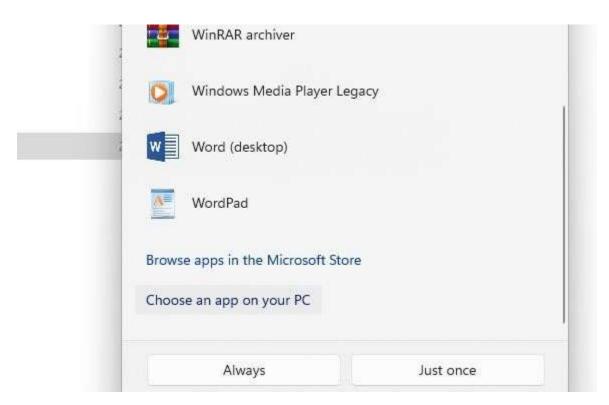


Then open the image using the shortcut

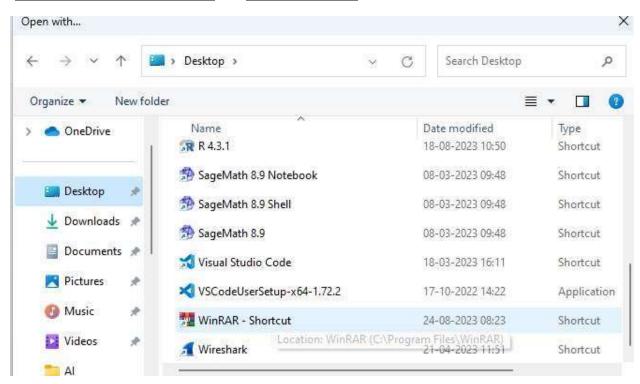
## **Right Click on the image** $\Box$ **Open with** $\Box$ **Choose another app**

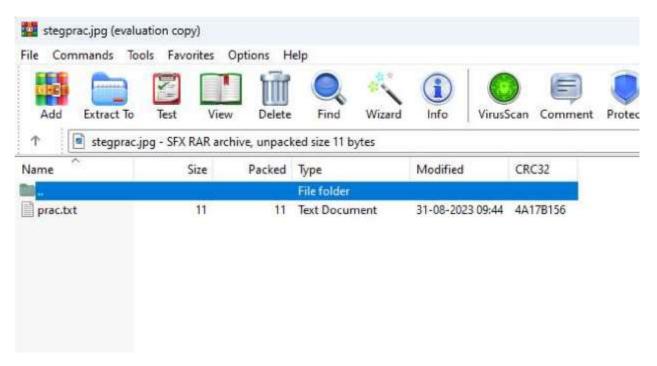


## Select Choose another app choose an app on your pc

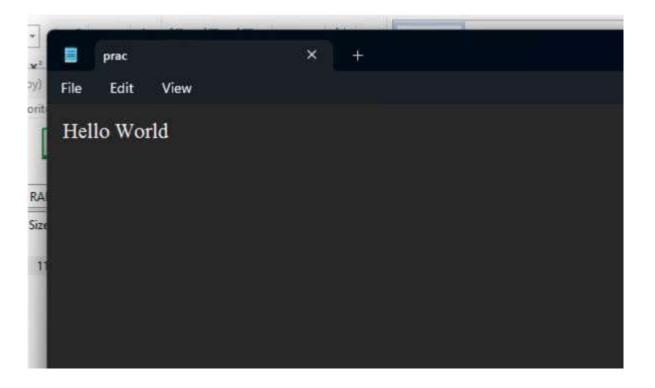


# Then $\underline{Desktop} \ \Box \ \underline{Shortcut\ created\ of\ WinRAR}$ and $\underline{Select\ Just\ Once}$





## View the Extracted File



## **Practical 8**

## **Email Forensics**

- You First Required a .pst file in Your Computer As Evidence
- A .pst file is A Backup of Your Microsoft Outlook Account Mails

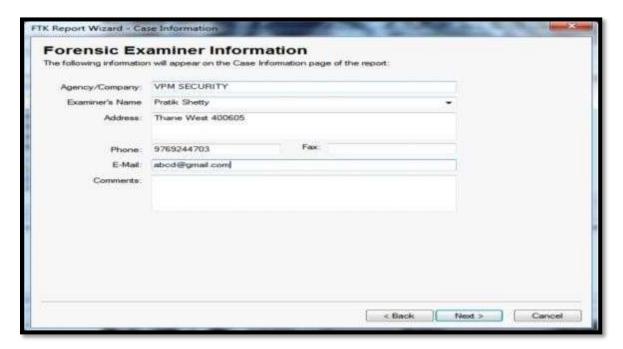
To Perform Recovery of Deleted Mails From .pst file required FTK (Forensic Toolkit)

- 1. Install Access Data FTK and Open it
- 2. Enter Details

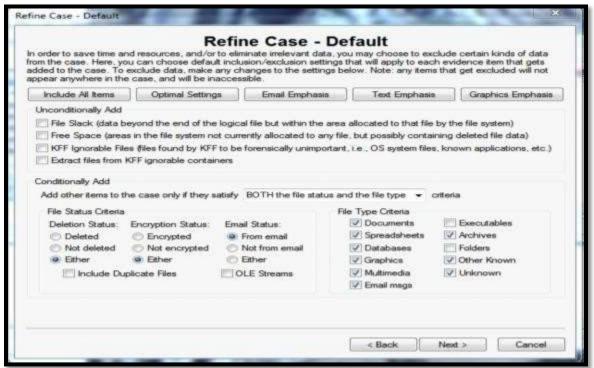




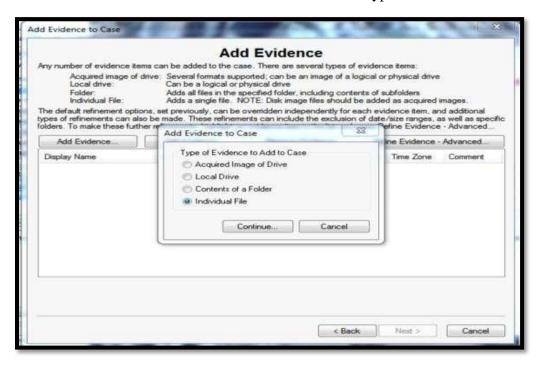
### 3. Enter Forensic Examiners Information



4. Refine Case Select Email Emphasis & Click Next



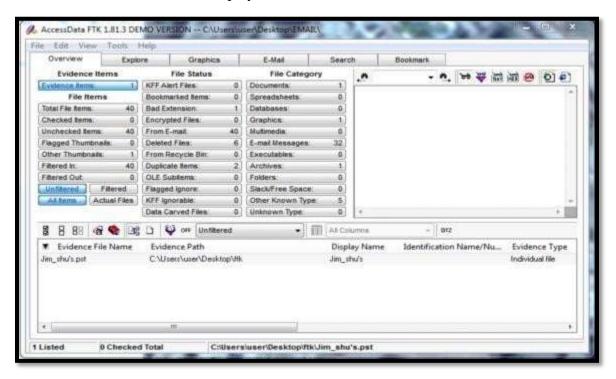
5. Click Add Evidence And Select Evidence File Type



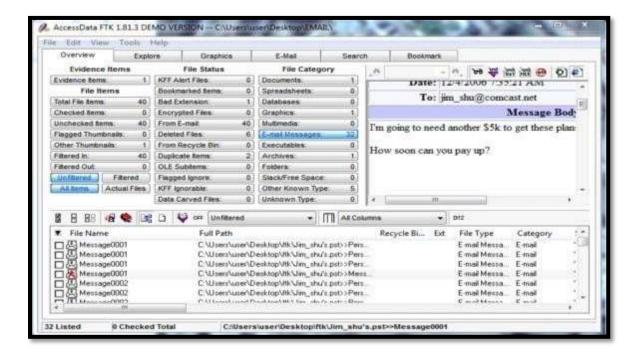
6. Select Evidence File



7. Selected File Will Be Displayed In Access Data FTK



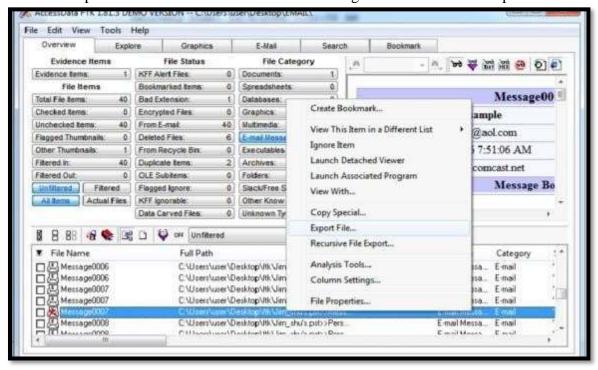
8. Click on Email Messages To See Emails Deleted Emails Are Shown In Red Cross Symbols



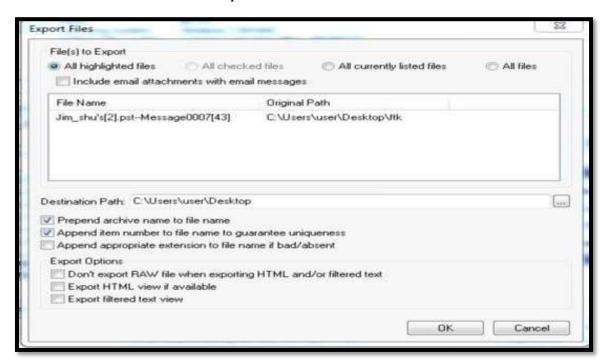
9. Right Click On Deleted Mails And Select Launch Associated Programs



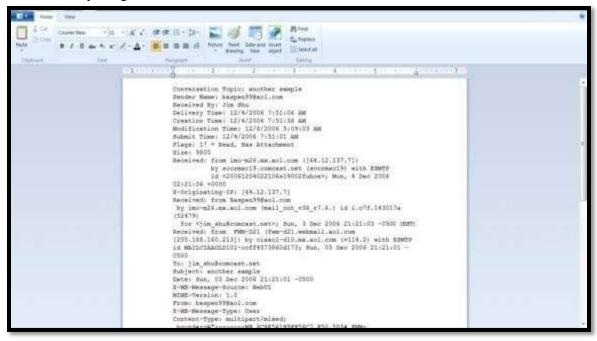
10. Or To Export Deleted Mail as an Individual File Right Click and Select Export File



11. Select Path For File To Be Exported.



12. Select Any Program to View File We Selected WordPad.



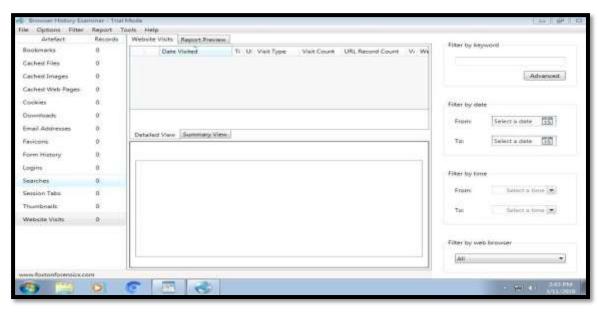
CONCLUSION:- We successfully did Email Forensics using FTK

# **Practical 9**

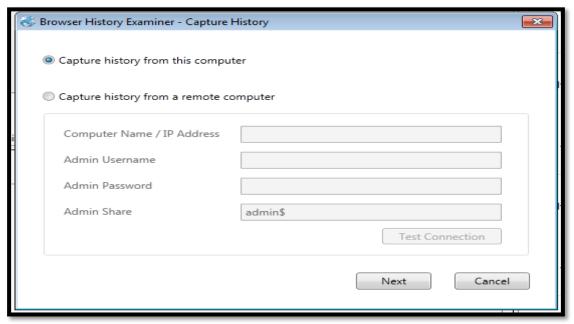
# Aim:- Examine Browser History Session Cache files using Browser History Examiner.

You must need a .NET framework and administrative access to the PC.

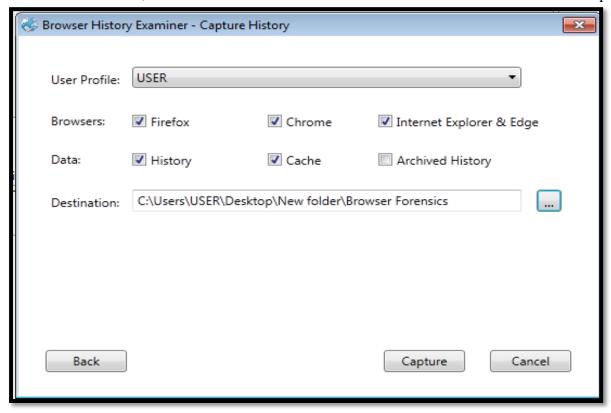
1. Open Browser History Examiner.



2. Go to File --> Capture History and Select Capture history from this Computer option and click Next.



3. Select User Profile, Browser & Data. Also Choose Destination for Results and Click on capture Button.



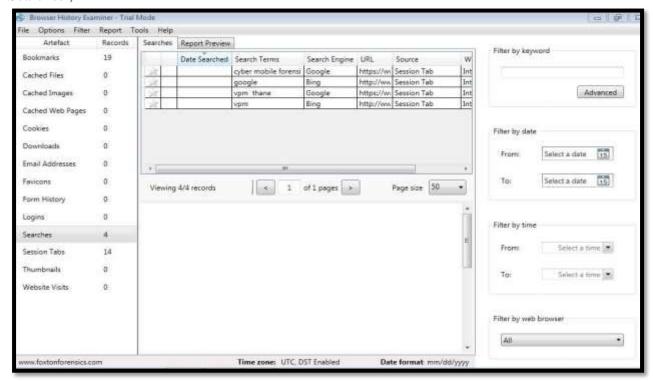
4. A popup will appear asking to load the history captured as below:-



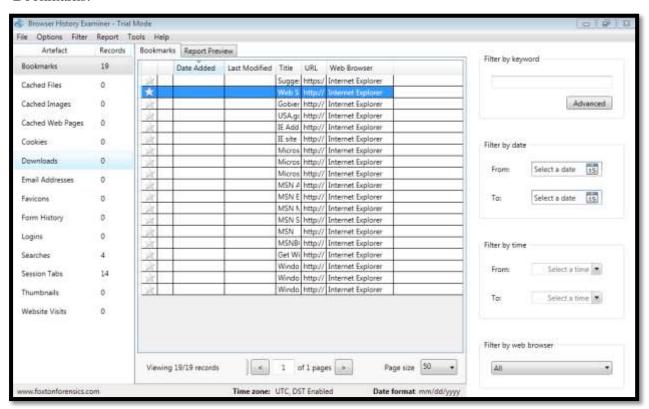
5. The History will be loaded in Browser History Examiner Window with Different types of Data such as Cache files, Bookmarks, Searches, etc.

The Following Window will appear

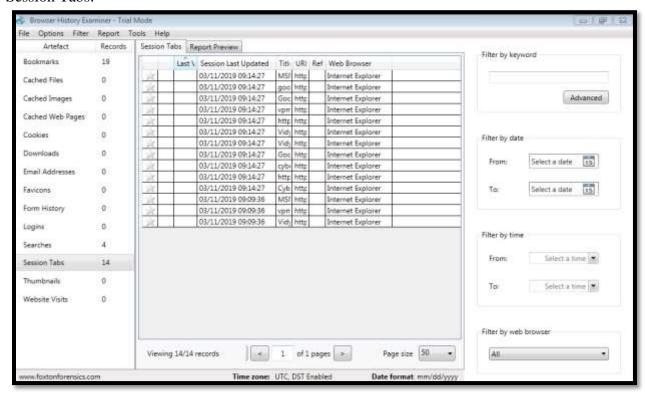
## Searches ;-



#### Bookmarks:-

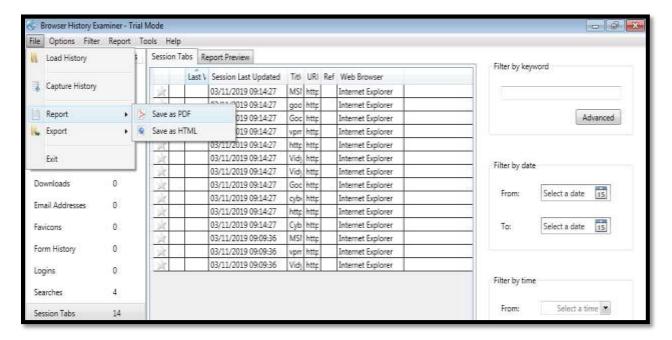


### Session Tabs:-

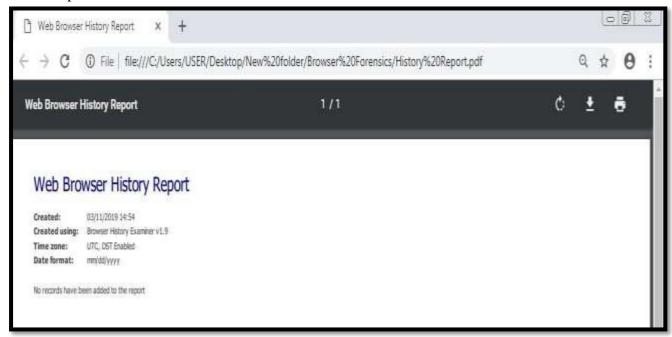


6. To Generate Report Of Browser History We go to File  $\rightarrow$  Report.

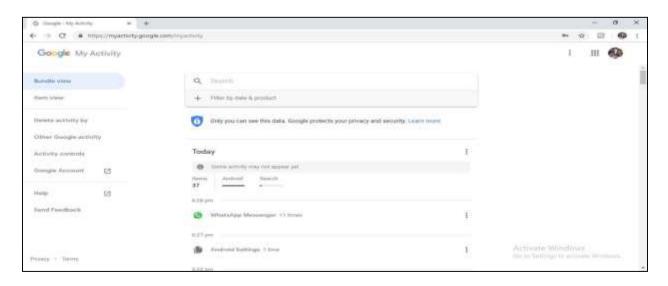
You can choose Both the Operations as a pdf file or as html File.

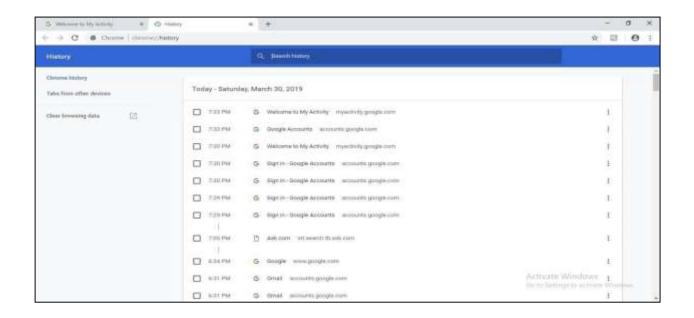


## 7. The Report Will Be Showed As:-



## Browser History using MyActivity





**CONCLUSION:-** We successfully examined Browser History Session Cache files using Browser History Examiner.